

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1-5. (Canceled)

6. (Previously presented) A signal detection method comprising:

(a) receiving a transmitted signal as a received signal, the transmitted signal comprising a first signal correlated with a pseudo-random number sequence, the first signal representative of an information signal, the received signal comprising one or more reflected signals and a line-of-sight signal;

(b) producing a matched signal from the received signal;

(c) correlating the matched signal with the pseudo-random number sequence to produce a correlated signal, the correlated signal comprising a main lobe and a plurality of side lobes;

(d) determining a peak value of the main lobe;

(e) determining a time value associated with the peak value of the main lobe;

(f) determining a threshold value based on the correlated signal; and

(g) if one of peak value of the main lobe and the plurality of side lobes exceeds the threshold value, then subtracting a template signal from the correlated signal to produce a new signal and repeating the steps (c) - (g) with the new signal, wherein the threshold value is recomputed with each iteration of the steps (c) - (g),

wherein a plurality of time values are produced by the repetition of steps (c)-(g), and

wherein the smallest of the time values represents the arrival time of the line-of-sight signal.

1                   7.     (Original) The method of claim 6 wherein the first signal is the  
2     information signal.

1                   8.     (Original) The method of claim 6 wherein the threshold value is based on  
2     peak values of the side lobes.

1                   9.     (Original) The method of claim 6 wherein the threshold value is based on  
2     a ratio between the peak value of the main lobe and a peak value of each side lobe.

10-14. (Canceled)